

What is claimed is:

1. A secondary structure of a linear stepping motor, which comprises a plurality of permeance sheets and a plurality of insulating sheets; said permeance sheets and said insulating sheets are made in a thin plate shape, said permeance sheets being made of a first material having good permeance while said insulating sheets being made of a second material having poor permeance, and besides, said permeance sheets and said insulating sheets are arranged in stagger and combined together.
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2. A secondary structure of a linear stepping motor as recited in claim 1, wherein said first material having good permeance is silicon steel.
- 10 3. A secondary structure of a linear stepping motor as recited in claim 1, wherein said first material having good permeance is pure iron.
4. A secondary structure of a linear stepping motor as recited in claim 1, wherein said second material having bad permeance is glass fiber.
- 15 5. A secondary structure of a linear stepping motor as recited in claim 1, wherein said permeance sheets have a plurality of permeance teeth used in planar linear stepping motor.
6. A secondary structure of a linear stepping motor as recited in claim 5, wherein clearance of said permeance teeth can be filled with colloid.
- 20 7. A secondary structure of a linear stepping motor as recited in claim 1, wherein a first method used for connecting and combining said permeance sheets and said insulating sheets arranged in stagger is pressurizing to combine.
8. A secondary structure of a linear stepping motor as recited in claim 1, wherein a second method used for combining said permeance sheets and said insulating sheets arranged in stagger is gluing with colloid.

9. A secondary structure of a linear stepping motor as recited in claim 1, wherein a third method used for combining said permeance sheets and said insulating sheets arranged in stagger is using a plurality of screws.

10. A manufacturing method of said secondary structure of said linear stepping motor,

5 comprising the steps of:

a. using a first plate of said permeance material to make said permeance sheets with a first contour designed in advance, and using a second plate of said insulating material to make said insulating sheets with a second contour designed in advance;

10 b. arranging said permeance sheets and said insulating sheets in stagger one by one, and

c. combining said permeance sheets and said insulating sheets which are arranged well,

whereby said secondary structure of said linear stepping motor is manufactured.

15 11. A manufacturing method of said secondary structure of a linear stepping motor as recited in claim 10, wherein a manufacturing method of said contour designed in advance is punching.